Claims

[1] 1. An insulator integrated with a clamp, comprising:
a center rod comprised of an insulating rod made of a glass material, and an insulating coating made of a polymer material to cover the insulating rod;
a connecting cap connected to a first end of the center rod; and
the clamp comprised of a body provided with a wedge-shaped casing unit having an inner space formed to narrow toward an end of the casing unit and a connecting unit formed on one end of the casing unit, and a pair of jaw elements positioned in the inner space of the casing unit and pushed inward by springs, so that the gap between the jaw elements is reduced to perform a clamping operation, and with the connecting unit being permanently connected to an end of the center rod.

[2] 2. The insulator integrated with a clamp according to claim 1, wherein the connecting unit of the clamp is formed in a pipe shape with a diameter slightly greater than a diameter of the insulating rod, so that one end of the insulating rod is tightly fitted into the connecting unit, thus enabling the clamp and the center rod to be permanently connected to each other.

[3] 3. The insulator integrated with a clamp according to claim 1, wherein:
the casing unit of the clamp is formed to have a fully opened top; and
the clamp further comprises separate cover panels attached to the tops of both sidewalls of the casing unit so that the cover panels partially cover the opened top and then prevent the jaw elements included in the casing unit from deviating upward from the casing unit.

[4] 4. The insulator integrated with a clamp according to claim 1, wherein the clamp further comprising the two guide channels are formed in the bottom of the casing unit to provide the sliding routes for the jaw elements, and a limitation stub formed in at least one of said guide channels to limit the jaw elements' movement.